

B82422-T

SIMID 1210-T



Size 1210 (EIA) or 3225 (IEC) Rated inductance 0.010 to 330 uH Rated current 40 to 450 mA



Construction

- Ceramic or ferrite core
- Laser-welded winding
- Flame-retardant encapsulation

Features

- High Q factor
- High resonance frequency
- High L value
- Suitable for reflow (IR and vapor phase) and wave soldering

Applications

- Filtering of supply voltages, coupling, decoupling
- Antenna systems
- Automotive electronics
- Telecommunications

Terminals

- Electro-plated
- 0,4 μm Cu; 1–2 μm Ag; 5–7 μm Sn
- Base material CuSn6
- Suitable for soldering and conductive adhesion
- No leaching during wave soldering

Marking

Marking on component: Manufacturer and letter »T«. L value (in μ H) and tolerance of L value (coded), date of manufacture (coded)

Minimum data on reel: Manufacturer, part number, ordering code, L value and tolerance of L value, quantity, date of packing

Delivery mode

8-mm blister tape, wound on 180-mm or 330-mm \varnothing reel For details on taping, packing and packing units see page 153



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General technical data

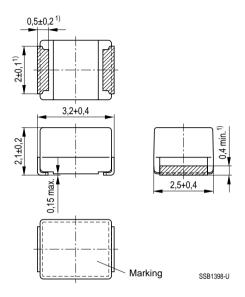
Rated inductance L _R	Measured with impedance analyzer HP 4194A at frequency $f_{\rm L}$				
Q factor Q_{\min}	Measured with impedance analyzer HP 4194A/HP 4291A at frequency f_Q				
Rated current I _R	Maximum permissible dc with inductance decrease $\Delta L/L_0 \le 10$ % and temperature increase of ≤ 30 K at rated temperature of 85 °C				
Self-resonance frequency $f_{\text{res, min}}$	Measured with network analyzer HP 8753				
DC resistance R _{max}	Measured at 20°C ambient temperature, measuring current < I _R				
Climatic category	In accordance with IEC 60068-1 55/125/56 (– 55°C/+ 125°C/56 days damp heat test)				
Solderability	In accordance with IEC 60062-2-58 (215 \pm 3) °C, (3 \pm 0,3) s Wetting of soldering area: \geq 90 %				
Resistance to soldering heat	In accordance with IEC 60068-2-20 260 °C, 10 s $\Delta L/L \le \pm 3$ %				
Permissible PCB bending	2 mm (100 mm long standard PCB)				
Weight	Approx. 50 mg				



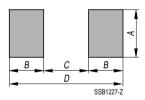
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Dimensional drawing



Layout recommendation



Dimensions (mm)	Α	В	С	D
Wave soldering	2,3	1,60	2,1	5,3
Reflow soldering	2,7	1,15	2,1	4,4

¹⁾ Soldering area, tinned



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Characteristics and ordering codes

L _R μΗ	Toler- ance ¹⁾	Q _{min}	f _L ; f _Q MHz	I _R mA	$R_{max} \Omega$	f _{res, min} MHz	Ordering code ²⁾ (Ø 180-mm reel)
Core ma	terial: ceram	ics	'	•	'	<u>'</u>	
0,010	±5%	15	100	450	0,10	4000	B82422-T3100-+
0,012	≙ J	17	100	450	0,11	3500	B82422-T3120-+
0,015	± 10 %	19	100	450	0,13	3000	B82422-T3150-+
0,018	≙K	21	100	450	0,14	2000	B82422-T3180-+
0,022		23	100	450	0,16	2000	B82422-T3220-+
0,027		23	100	450	0,17	1700	B82422-T3270-+
0,033		25	100	450	0,18	1700	B82422-T3330-+
0,039		25	100	450	0,19	1300	B82422-T3390-+
0,047		26	100	450	0,20	1300	B82422-T3470-+
0,056		26	100	450	0,21	1100	B82422-T3560-+
0,068		27	100	450	0,23	1000	B82422-T3680-+
0,082		27	100	450	0,26	1000	B82422-T3820-+
0,10		28	100	450	0,31	900	B82422-T3101-+
Core ma	terial: ferrite				•		
0,12	±5%	30	25,2	450	0,15	900	B82422-T1121-+
0,15	≙ J	30	25,2	450	0,18	700	B82422-T1151-+
0,18	± 10 %	30	25,2	450	0,19	500	B82422-T1181-+
0,22	_ ≙ K	30	25,2	450	0,20	500	B82422-T1221-+
0,27		30	25,2	450	0,21	500	B82422-T1271-+
0,33		30	25,2	450	0,23	500	B82422-T1331-+
0,39		30	25,2	450	0,25	400	B82422-T1391-+
0,47		30	25,2	450	0,30	400	B82422-T1471-+
0,56		30	25,2	450	0,31	300	B82422-T1561-+
0,68		30	25,2	450	0,34	300	B82422-T1681-+
0,82		30	25,2	450	0,38	300	B82422-T1821-+
1,0		30	7,96	400	0,6	300	B82422-T1102-+
1,2		30	7,96	390	0,7	250	B82422-T1122-+
1,5		30	7,96	370	0,7	200	B82422-T1152-+
1,8		30	7,96	350	0,8	140	B82422-T1182-+
2,2		30	7,96	320	0,8	100	B82422-T1222-+

¹⁾ Closer tolerances and special versions upon request.

Replace the + by the code letter for the required inductance tolerance.
For reel size Ø 330 mm append code number »8«. Example: B82422-T3100-K8



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Characteristics and ordering codes (continued)

L _R μΗ	Toler- ance ¹⁾	Q _{min}	f _L ; f _Q MHz	I _R mA	$R_{max} \ \Omega$	f _{res, min} MHz	Ordering code ²⁾ (Ø 180-mm reel)		
Core material: ferrite									
2,7	±5%	30	7,96	290	0,9	70	B82422-T1272-+		
3,3	_	30	7,96	260	1,2	60	B82422-T1332-+		
3,9	± 10 %	30	7,96	250	1,3	60	B82422-T1392-+		
4,7	≙K	30	7,96	220	1,5	50	B82422-T1472-+		
5,6		27	7,96	200	1,6	45	B82422-T1562-+		
6,8		27	7,96	180	1,8	40	B82422-T1682-+		
8,2		27	7,96	170	2,0	35	B82422-T1822-+		
10		27	2,52	150	2,1	30	B82422-T1103-+		
12		27	2,52	140	2,5	25	B82422-T1123-+		
15		27	2,52	130	2,8	20	B82422-T1153-+		
18		27	2,52	120	3,0	20	B82422-T1183-+		
22		27	2,52	110	3,5	20	B82422-T1223-+		
27		27	2,52	80	4,5	20	B82422-T1273-+		
33		27	2,52	70	5,6	17	B82422-T1333-+		
39		27	2,52	65	6,4	16	B82422-T1393-+		
47		27	2,52	60	7,0	15	B82422-T1473-+		
56		27	2,52	60	8,0	12	B82422-T1563-+		
68		27	2,52	60	9,0	9	B82422-T1683-+		
82		25	2,52	60	10	9	B82422-T1823-+		
100		20	0,796	60	11	8	B82422-T1104-+		
120		20	0,796	60	12	8	B82422-T1124-+		
150		20	0,796	50	17	7	B82422-T1154-+		
180		20	0,796	50	18	7	B82422-T1184-+		
220		20	0,796	45	22	6	B82422-T1224-+		
270		20	0,796	40	28	5	B82422-T1274-+		
330		20	0,796	40	34	4	B82422-T1334-+		

¹⁾ Closer tolerances and special versions upon request.

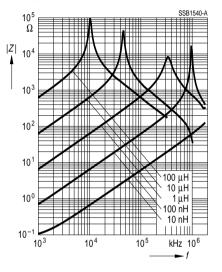
⁷⁾ Replace the + by the code letter for the required inductance tolerance.
For reel size Ø 330 mm append code number »8«. Example: B82422-T1272-K8



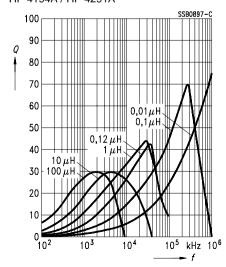


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Impedance |Z| versus frequency f measured with impedance analyzer HP 4291A

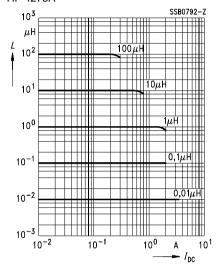


Q factor versus frequency f measured with impedance analyzer HP 4194A / HP 4291A

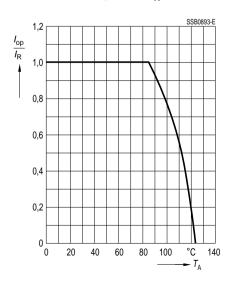


SMD

Inductance L versus dc load current $I_{\rm DC}$ measured with LCR meter HP 4275A



Current derating I_{op}/I_{R} versus ambient temperature T_{A}





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